|         |         | Daily Com  | WPCF<br>RAINFALL | CSO INFLUENT<br>FLOW | CSO<br>PUMPBACK TO<br>WWTF | CSO BYPASS<br>TO RIVER | CSO TREATED<br>TO RIVER | CSO EVENT<br>DURATION | South Street<br>CSO #9 Flow | CSO #9 FLOW<br>DURATION | CSO #9 % SEC.<br>TREATED                  |
|---------|---------|--|------------------|----------------------|----------------------------|------------------------|-------------------------|-----------------------|-----------------------------|-------------------------|---|
|         |         | ğ  | INCHES           | MGD                  | MGD                        | MGD                    | MGD                     | Hours                 | MGD                         | Hours                   | %   |
|         | 1 Fri   |  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 2 Sat   | E C  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 3 Sun   |  | 1.15             | 3.145                | 0.000                      | 0.000                  | 2.35                    | 1.3                   | 3.310                       | 2.50                    |   |
|         | 4 Mon   | R  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 5 Tue   |  | 0.06             | 0.000                | 0.020                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 6 Wed   |  | 0.67             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.040                       | 0.30                    |   |
|         | 7 Thu   |  | 0.24             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.140                       | 0.40                    |   |
|         | 8 Fri   |  | 0.00             | ,0.000               | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 9 Sat   |  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 10 Sun  |  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 11 Mon  |  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 12 Tue  | 4.1  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 13 Wed  | hy   | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 14 Thu  | 2  | 0.02             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
| Sep     | 15 Fri  | 10   | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    | N. C. |
|         | 16 Sat  | ii<br>Dg   | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 17 Sun  | The state of the s | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 18 Mon  | 1  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 19 Tue  | 75<br>27<br>164  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 20 Wed  | 16.0   | 0.00             | 0.000                | 0.006                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 21 Thu  | 10   | 0.00             | 0.000                | 0.016                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 22 Fri  | 16   | 0.00             | 0.000                | 0.029                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 23 Sat  | 100<br>100<br>100  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 24 Sun  | 8  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 25 Mon  |  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 26 Tue  | 19[1<br>2/0  | 0.00             | 0.000                | 1.120                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 27 Wed  |  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 28 Thu  |  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 29 Fri  | 1.1  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    |   |
|         | 30 Sat  | Table 1  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    | 34.1                                      |
|         | MINIMUM |  | 0.00             | 0.000                | 0.000                      | 0.000                  | 0.00                    | 0.0                   | 0.000                       | 0.00                    | 34.1                                      |
|         | MAXIMUM |  | 1.15             | 3.145                | 1.120                      | 0.000                  | 2.35                    | 1.3                   | 3.310                       | 2.50                    | 34.1                                      |
|         | AVERAGE |  | 0.07             | 0.105                | 0.040                      | 0.000                  | 0.08                    | 0.0                   | 0.116                       | 0.11                    | 34.1                                      |
|         | SUM     |  | 2.14             | 3.145                | 1.191                      | 0.000                  | 2.35                    | 1.3                   | 3.490                       | 3.20                    | 34.1                                      |
| GEOMEAN |         | , i  | 0.76             | 1.039                | 0.575                      | 1.000                  | 1.03                    | 1.0                   | 0.876                       | 0.96                    | 34.1                                      |

## Holyoke MA - Berkshire Street CSO Treatment Facility, CSO #09 Sample Results of Treated Flow to River (Flow "A")

Sep-17

|                    |                  |                   |                           | <u>-</u> |           |           |  |
|--------------------|------------------|-------------------|---------------------------|----------|-----------|-----------|--|
| Monthly            | e-Coli           | CL2 Residual      | TRC: CL2 Residual         |          | РН        |           |  |
| Samples:           |                  | In CSO Facility   | After Dechlor             |          |           |           |  |
|                    | One Event /month | One Event /month  | One Event /month          | One      | Grab/M    |           |  |
| Date of            | Hourly samples   | One every 4 hours | One every 4 hours         |          |           |           |  |
| Sample             | (colonies/100ml) | (mg/l)            | (mg/l)                    |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
| 9/3/2017           |                  | 5.40 "            | 4.4 (1)                   |          | 0.00      |           |  |
| 8:04am to 8:30am   |                  | 5.10mg/l          | .11mg/l                   |          | 6.80      |           |  |
| 4.00 4.00          |                  | 0.00              | 00                        |          | 7.00      |           |  |
| 4:08pm to 4:32pm   |                  | 6.60mg/l          | .02mg/l                   |          | 7.00      |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  | -                 |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           | min      | 6.80      |           |  |
|                    |                  | · · ·             |                           | max      | 7.00      |           |  |
| Monthly Average    |                  | 5.85mg/l          | .07mg/l                   | max      | 7.00      |           |  |
| Geometric Mean     |                  | LC                | 50 Toxicity Compos        | site     |           |           |  |
| (E-Coli)           |                  |                   | To realisty delity delity |          |           |           |  |
| Samples/           | TSS              | Ammonia           | Nitrate                   | Nitrite  | TKŃ       | LC 50     |  |
|                    | '35              | ,                 |                           | NO2 (as  |           |           |  |
| 6 Months           | Solids (TSS)     | Nitrogen (as N)   | NO3 (as N)                | N)       | (as N)    | Toxicity  |  |
| Date of            | Composite        | Composite         | , ,                       | · '      | Composite | ,         |  |
| Sample-            | (mg/l)           | (mg/l)            | (mg/l)                    | (mg/l)   | (mg/l)    | Somposito |  |
| Effluent Building  | (5,1)            | (1119/1)          | ('''8''')                 | (1118/1) | (1119/1)  |           |  |
| Emacific ballaring |                  |                   |                           |          |           |           |  |
|                    |                  |                   |                           |          |           |           |  |